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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,374	02/15/2002	Mihaela Van Der Schaar	US 020044	1300
24737	4737 7590 08/25/2006		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			CZEKAJ, DAVID J	
			ART UNIT	PAPER NUMBER
			2621	TALER NOMBER
			2021	
		DATE MAILED: 08/25/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/076,374	VAN DER SCHAAR, MIHAELA			
Office Action Summary	Examiner	Art Unit			
	Dave Czekaj	2621			
The MAILING DATE of this communication app					
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 24 A _I	oril 2006.				
	action is non-final.				
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>21-40</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>21-40</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
	o,				
Attachment(s)	_				
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ratent Application (PTO-152)			
Paper No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 21-40 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

2. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 38-40 are rejected under 35 U.S.C. 101 because the claims do not meet the 35 U.S.C. 101 requirements (the claims have improper language regarding the computer readable medium). Please see the USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" in the Official Gazette notice of 22 November 2005, Annex IV, page 53. The examiner further suggests changing "includes" in line 1 of claim 38 to "encoded with" to meet the 101 Interim Guidelines (page 53, lines 7-11).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 21-27, 29-32, 35-36, 38, and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (6956972), (hereinafter referred to as "Wu") in view of Chen et al. (6798364), (hereinafter referred to as "Chen").

Regarding claims 21, 29-30, and 38, Wu discloses an apparatus that relates to motion compensation based video coding (Wu: column 1, lines 13-16). This apparatus comprises "receiving a plurality of transform blocks" (Wu: figure 9), "converting each of the blocks into bit-plane encodings" (Wu: figure 9, wherein the bit-plane VLC performs converting), and "transmitting each encodings of the bocks in order" (Wu: column 4, lines 59-67). However, this apparatus lacks storing the bit-plane encodings prior to converting another block as claimed. Chen teaches that prior art computing systems introduce mispredicted branches which cause processor slowdown (Chen: column 1, lines 45-53). To help alleviate this problem, Chen discloses "storing each of the bitplane encodings in a memory" (Chen: column 5, lines 33-36). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to take the apparatus disclosed by Wu and add the storage taught by Chen in order to obtain an apparatus that operates more efficiently by preventing processor slowdown.

Regarding claims 22 and 31, although not disclosed, it would have been obvious to store the bit-plane from MSB to LSB (Official Notice). Doing so would have been obvious in order to easily find a desired part of the stream.

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Regarding claims 23, 32, and 40, although not disclosed, it would have been obvious for the encoding to include run length encoding (Official Notice). Doing so would have been obvious in order to compress the data for easier transmission.

Regarding claim 24, Chen discloses "storing each bit-plane encoding includes storing the encoding for each subsequently received block in locations following the encoding of a prior received block" (Chen: column 5, lines 33-36, wherein two bit planes are sequentially stored in memory).

Regarding claim 25, although not disclosed, it would have been obvious to discard each block after the transform process (Official Notice). Doing so would have been obvious in order avoid sending redundant data over a network.

Regarding claims 26 and 35, Chen discloses "each transform blocks corresponds to a fine granular scalability encoding" (Chen: column 1, lines 30-31).

Regarding claims 27 and 36, Wu discloses "the transform blocks correspond to a DCT" (Wu: figure 9).

5. Claims 28 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (6956972), (hereinafter referred to as "Wu") in view of Chen et al. (6798364), (hereinafter referred to as "Chen") in further view of Lafe (6456744).

Regarding claims 28 and 37, note the examiners rejection for claim 21, and in addition, claims 28 and 37 differ from claim 21 in that claims 28 and 37 further require identifying the maximum transform coefficient. Lafe teaches that

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there is a need for fast and effective compression (Lafe: column 1, lines 35-38). To help alleviate this need, Lafe discloses "identifying a maximum transform coefficient within the block and determining the encodings for the block based on the coefficient" (Lafe: column 17, lines 26-50). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the processing taught by Lafe in order to obtain an apparatus that provides fast and effective compression.

6. Claims 33-34 and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wu et al. (6956972), (hereinafter referred to as "Wu") in view of Chen et al. (6798364), (hereinafter referred to as "Chen") in further view of Monro (WO 98/37700).

Regarding claims 33-34 and 39, note the examiners rejection for claim 21, and in addition, claims 33-34 and 39 differ from claim 21 in that claims 33-34 and 39 further require storing the bit plane encodings in a third location which is between the first two locations. Monro teaches storing data in an interleaved format, or between two locations (Monro: figures 2-3). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to implement the storage taught by Monro in order to obtain an apparatus that provides fast and effective memory access.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dave Czekaj whose telephone number is (571) 272-7327. The examiner can normally be reached on Monday - Friday 9 hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mehrdad Dastouri can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DJC

MEHRDAD DASTOURI SUPERVISORY PATENT EXAMINER

Mehrdad Dastown

TC 2600